

# FACULTY OF HEALTH SCIENCES BSc ENVIRONMENTAL HEALTH SCIENCES END OF <u>SEMESTER I</u> EXAMINATIONS

TITLE OF PAPER:

**RESEARCH METHODS** 

COURSE CODE:

EHM308

**DURATION:** 

2 HOURS

DATE:

**DECEMBER 2015** 

INSTRUCTIONS:

- 1. READ THE QUESTIONS CAREFULLY.
- 2. ANSWER ANY FOUR (4) QUESTIONS.
- 3. EACH QUESTION CARRIES 25 MARKS. WHERE A QUESTION IS SUBDIVIDED INTO PARTS, THE MARK FOR EACH PART IS SHOWN IN BRACKETS.
- 4. NO PAPER SHOULD BE BROUGHT INTO THE EXAMINATION ROOM.
- 5. BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER.

SPECIAL REQUIREMENTS: NIL

DO NOT OPEN THE QUESTION PAPER UNTIL INSTRUCTED TO DO SO BY THE INVIGILATOR.

## **QUESTION 1**

Write notes on the following:

- a. Validity. [5]
- b. Prospective cohort. [5]
- c. Confounded relationship. [5]
- d. Extraneous variable. [5]
- e. Independent variable. [5]

[25]

## **QUESTION 2**

Discuss briefly steps followed in the development of a research proposal under the following headings:

- a. Objectives. [5]
- b. Research design. [10]
- c. Reliability. [5]
- d. Questionnaire coding. [5]

[25]

### **QUESTION 3**

- a. Discuss probability sampling under the following headings:
  - i. Simple random sampling [5]
  - ii. Systematic random sampling [5]
  - iii. Stratified random sampling [5]
- Explain why it would not be reasonable to use the census approach as a research design. [10]

[25]

### **QUESTION 4**

a. Give the reasons for using a double blind study design in clinical trials and highlight the advantages and disadvantages. [15]

 b. Compare completely randomized experimental design and randomized block design. [10]

[25]

# **QUESTION 5**

- a. Discuss the principles involved in obtaining informed consent. [10]
- b. Explain why the Nuremberg Code was developed and state its contents. [15]

[25]

### **THE END**